## IN THE CLAIMS

## 1-18 (canceled)

19. (currently amended) A copolymer comprising at least one grafted side chain comprising an aldehyde component and a sulfur-containing acid component or a salt thereof, wherein the copolymer is water-soluble, biologically degradable, free of aminoplast former, and based on a on polyamide.

Claims 20-42 (canceled)

- 43. (new) The copolymer as claimed in claim 19, containing the polyamide in an amount of 5 to 80 % by weight of the copolymer, the aldehyde component in an amount of 5 to 90 % by weight of the copolymer and the sulfur-containing acidic component in an amount of 5 to 60 % by weight of the copolymer.
- 44. (new) The copolymer as claimed in claim 19, wherein the polyamide is a natural polyamide.
- 45. (new) The copolymer as claimed in claim 19, wherein the polyamide is a polyaspartic acid or copolymers of aspartic and glutamic acid and mixtures thereof.
- 46. (new) The copolymer as claimed in claim 19, comprising a grafted aldehyde based on a member selected from the group consisting of paraformaldehyde, paraldehyde, an unbranched non-aromatic aldehyde, formaldehyde, acetaldehyde and glyoxal.
- 47. (new) The copolymer as claimed in claim 19, comprising a

grafted aldehyde having from 1 to 5 carbon atoms.

- 48. (new) The copolymer as claimed in claim 19, comprising formaldehyde, acetaldehyde or glycoxal.
- 49. (new) The copolymer as claimed in claim 19, containing grafted sulfur-containing acids (salts) based on inorganic sulfur salts.
- 50. (new) The copolymer according to claim 49, wherein the grafted sulfur containing acid is a sulfite, hydrogen sulfite, or a disulfite of an alkali metal, aluminum, iron or ammonium.
- 51. (new) The copolymer as claimed in claim 19, wherein the side chain further comprises at least one additional compound selected from the group consisting of a ketone and an aromatic alcohol.
- 52. (new) The copolymer as claimed in claim 51, wherein the additional compound is present in a proportion of from 5 to 85 % by weight.
- 53. (new) The copolymer as claimed in claim 51, comprising grafted ketones based on a non-aromatic ketone 2-propanone, 2-butanone or pyruvic acid.
- 54. (new) The copolymer as claimed in claim 51, comprising a grafted aromatic alcohol based on a phenol, a cresol, a catechol or a resorcin.
- 55. (new) The copolymer as claimed in claim 19, produced by graft polymerization at temperatures between -10 and 250°C.
- 56. (new) The copolymer of claim 55, wherein the graft

polymerization is conducted in the presence of a solvent.

- 57. (new) The copolymer of claim 55, wherein said graft polymerization is by thermal treatment.
- 58. (new) The copolymer of claim 19, wherein the copolymer has a molar mass  $\overline{M_n}$  o of <50,000 g/mol.
- 59. (new) The copolymer of claim 56, wherein said solvent is a polar solvent.
- 60. (new) The copolymer of claim 59, wherein said polar solvent is water is dimethyulsulfoxide.
- 61. (new) The copolymer as claimed in claim 19, containing the polyamide in an amount of 10 to 60 % by weight of the copolymer, the aldehyde component in an amount of from of 10 to 70 % by weight of the copolymer and the sulfur-containing acidic component in an amount of 15 to 40 % by weight of the copolymer.
- 62. (new) The copolymer as claimed in claim 44, wherein the natural polyamide is selected from the group consisting of caseins, gelatins, collagens, bone glues, blood albumins and soya proteins.
- 63. (new) The copolymer according to claim 44, wherein the polyamide is synthetic.
- 64. (new) The copolymer according to claim 19, wherein the polyamide is a synthetic polyamide.

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